



Smart Phone Compatible H.264 DVR Security System

68332 DVR Security System



When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-800-520-0882 as soon as possible.

Record Product's Serial Number Here: _____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

Visit our website at: <http://www.harborfreight.com>

Specifications

Video Standard	NTSC/PAL	
Video	4-Input Channels/2-Output Channels	
Audio	1-Input Channel/1-Output Channel	
Preview	Resolution	NTSC: 704 x 480 @ 30 fps (each CH) PAL: 704 x 576 @ 25 fps (each CH)
Recording	Resolution	NTSC: CIF: 352 x 240; HD1: 704 x 240; D1: 704 x 480 PAL: CIF: 357 x 288; HD1: 704 x 288; D1: 704 x 576
	Quality	4 Levels
	Frame Rate	NTSC: up to 30 fps (frames per second) each CH, 120 fps total PAL: up to 25 fps (frames per second) each CH, 100 fps total
Cameras	Effective Pixels	NTSC: 510 H x 492 V PAL: 500 H x 582 V
	Horizontal Resolution	380 TV lines
	Field of View	55 - 60 Ft of Visible Clarity
	Minimum Illuminance	1.5 LUX at 2 feet for Day Time operation
	Infrared Illumination Range	12 feet
	Camera Operating Temperature	50°F - 104°F
	Cable	60 ft. Audio/Video Cable
Hard drive	500GB hard drive	
Audio	ADPCM2 CODEC	
Video	H-264	
Motion Detection	Selectable Area and Sensitivity Detection	
Microprocessor	32-bit RISC Processor	
Network Interface	RJ-45 10m/100m selft adaptable Ethernet Interface	
HDD Interface	SATA up to 1024GB	
USB Port	USB 2.0	
Audio Port	Optional	
Remote Control	Support IR Remote Control	
Adapter	Input: 120 V ~ / 60 Hz Output: 12 VDC, 5A	
Included Accessories	4 Infrared Day/Night Cameras (Two 3.6mm wide angle and two 6mm for longer range, all are color in daylight and black & white infrared night viewing), Camera Cables, Video Cable, Wireless Remote Control, Mouse with USB cable connection, 5-way Cable Splitter, Power Cord, Power Adapter, Software CD, Two AAA Batteries.	

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Save This Manual

Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

Safety Warnings

In this manual, on the labeling, and all other information provided with this product:



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to personal injury.

CAUTION

CAUTION, without the safety alert symbol, is used to address practices not related to personal injury.



WARNING! Read all instructions.

Failure to follow all instructions listed below may result in fire, serious injury and/or DEATH.

The warnings and precautions discussed in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

SAVE THESE INSTRUCTIONS

1. Work area safety

Keep cameras, cables and DVR out of reach of children.

2. Electrical safety

a. **Power plugs must match the outlet.**

Never modify the plug in any way. Do not use any adapter plugs with grounded plugs. *Unmodified plugs and matching outlets will reduce risk of electric shock.*

b. **Do not expose DVR Unit to rain or wet conditions.**

c. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the unit. Keep cord away from heat, oil, sharp edges or moving parts.** *Damaged or entangled cords increase the risk of electric shock.*

3. Service

Have your DVR serviced by a qualified repair person using only identical replacement parts. *This will ensure that the safety of the unit is maintained.*

DVR-Camera Kit Safety Warnings

4. Maintain labels and nameplates on the unit.

These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

5. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure. In addition, people with pacemakers should properly maintain and inspect to avoid electrical shock.

6. **WARNING:** Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling. (California Health & Safety Code § 25249.5, *et seq.*)



SAVE THESE INSTRUCTIONS.

Grounding

⚠ WARNING

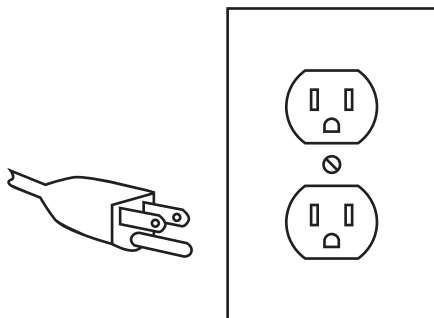
TO PREVENT ELECTRIC SHOCK AND DEATH FROM

INCORRECT GROUNDING WIRE CONNECTION:



Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the device. Never remove the grounding prong from the plug. Do not use the device if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

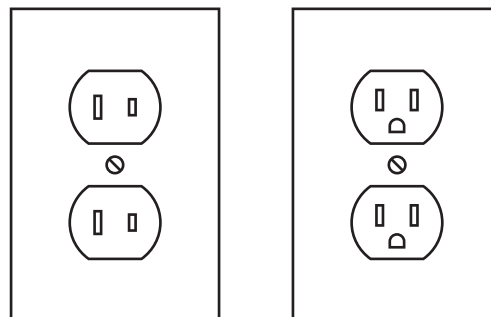
Grounded Devices: Devices with Three Prong Plugs



3-Prong Plug and Outlet

1. Devices marked with "Grounding Required" have a three wire cord and three prong grounding plug. The plug must be connected to a properly grounded outlet. If the device should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user, reducing the risk of electric shock. **(See 3-Prong Plug and Outlet.)**
2. The grounding prong in the plug is connected through the green wire inside the cord to the grounding system in the device. The green wire in the cord must be the only wire connected to the device's grounding system and must never be attached to an electrically "live" terminal. **(See 3-Prong Plug and Outlet.)**
3. The device must be plugged into an appropriate outlet, properly installed and grounded in accordance with all codes and ordinances. The plug and outlet should look like those in the preceding illustration. **(See 3-Prong Plug and Outlet.)**

Double Insulated Devices: Devices with Two Prong Plugs



Outlets for 2-Prong Plug

1. Devices marked "Double Insulated" do not require grounding. They have a special double insulation system which satisfies OSHA requirements and complies with the applicable standards of Underwriters Laboratories, Inc., the Canadian Standard Association, and the National Electrical Code. **(See Outlets for 2-Prong Plug.)**
2. Double insulated devices may be used in either of the 120 volt outlets shown in the preceding illustration. **(See Outlets for 2-Prong Plug.)**

Extension Cords

1. **Grounded** devices require a three wire extension cord. **Double Insulated** devices can use either a two or three wire extension cord.
2. As the distance from the supply outlet increases, you must use a heavier gauge extension cord. Using extension cords with inadequately sized wire causes a serious drop in voltage, resulting in loss of power and possible device damage. **(See Table A.)**
3. The smaller the gauge number of the wire, the greater the capacity of the cord. For example, a 14 gauge cord can carry a higher current than a 16 gauge cord. **(See Table A.)**
4. When using more than one extension cord to make up the total length, make sure each cord contains at least the minimum wire size required. **(See Table A.)**
5. If you are using one extension cord for more than one device, add the nameplate amperes and use the sum to determine the required minimum cord size. **(See Table A.)**
6. If you are using an extension cord outdoors, make sure it is marked with the suffix "W-A" ("W" in Canada) to indicate it is acceptable for outdoor use.
7. Make sure the extension cord is properly wired and in good electrical condition. Always replace a damaged extension cord or have it repaired by a qualified electrician before using it.
8. Protect the extension cords from sharp objects,

excessive heat, and damp or wet areas.

RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS* (120/240 VOLT)					
NAMEPLATE AMPERES (at full load)	EXTENSION CORD LENGTH				
	25'	50'	75'	100'	150'
0 – 2.0	18	18	18	18	16
2.1 – 3.4	18	18	18	16	14
3.5 – 5.0	18	18	16	14	12
5.1 – 7.0	18	16	14	12	12
7.1 – 12.0	18	14	12	10	-
12.1 – 16.0	14	12	10	-	-
16.1 – 20.0	12	10	-	-	-
TABLE A * Based on limiting the line voltage drop to five volts at 150% of the rated amperes.					

Symbology

	Double Insulated
	Canadian Standards Association
	Underwriters Laboratories, Inc.
	Volts Alternating Current
	Amperes
	No Load Revolutions per Minute (RPM)

Features

This unit is equipped with the following features:

- Real time monitoring - Supports real time surveillance via Monitor
- Save Recordings - DVR saves real-time recorded images to HDD
- Backup Recordings - Supports DVR backup via USB flash drive and hard drive
- Playback Recordings - Supports DVR single CH and multiple CH playback of recorded files
- Network operation - Supports remote surveillance by multiple users simultaneously
- Alarm Setting - Supports HDD & video input alarm management
- Mouse Operation - Supports Mouse operation for faster menu navigation.
- PTZ Control - Supports PTZ (Pan/Tilt/Zoom) camera operations through RS-485 port.
- H.264 video compression format - Supports D1, HD1, and CIF resolution
- Records 9 levels of quality
- Over 2500 hrs of recording capacity (at lowest setting)
- ADPCM audio compression format
- Windows Graphical interface
- BNC video out ports
- Supports remote live viewing via 3G mobile networks
- Supports sending email alerts when motion is detected by system
- Triplex functionality (recording, playback and net transmitting at the same time)
- Supports USB mouse, infrared remote control operation
- Rear USB 2.0 ports for backup, upgrade and mouse operation
- Supports Double Encode bit network transmission
- Video package time is adjustable
- Multiple alarm record modes
- Multiple languages OSD (On Screen Display)
- Supports auto maintenance

Setup Overview

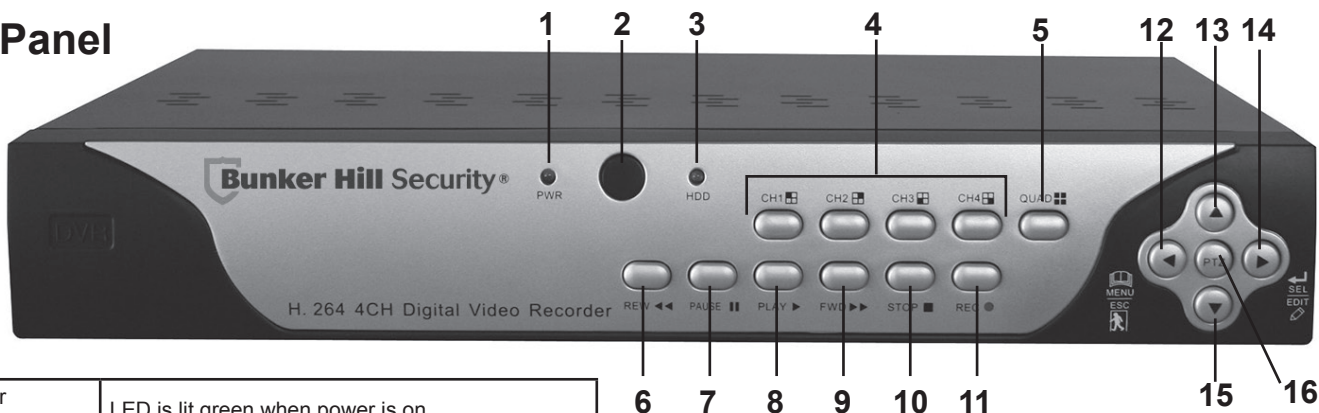
This unit can be set up in several different configurations. The simplest is with a TV monitor. For set up through the internet there are specific software requirements and you will need to have an understanding of your router, your computer and your internet connection settings, as well as port forwarding knowledge. Following are the possible set up options.

1. DVR with a TV monitor (sold separately) - This is the simplest set up that allows you to adjust all the settings, view and record live images and play back any recordings. You do not have to have a computer or internet capabilities with this set up.
2. DVR with a computer and a TV monitor (both sold separately) - This set up allows you to view recorded files on a computer connected to the unit. You can record when you view the DVR over the internet.
3. DVR and a computer, connected to the same router and accessed through your web browser (computer and router sold separately) - This set up allows you to adjust all the settings, view and record live images, and play back any recordings through your web browser. You will first need a TV monitor to set up the system. This option may not function with all web browsers.
4. Remote access through your internet service - This arrangement allows remote access to the DVR through the internet or your internet capable mobile device. You will need to have the unit already set up as in the previous paragraph, and have set up knowledge of port forwarding and your router's external IP address in order to set up this configuration.

Components



Front Panel



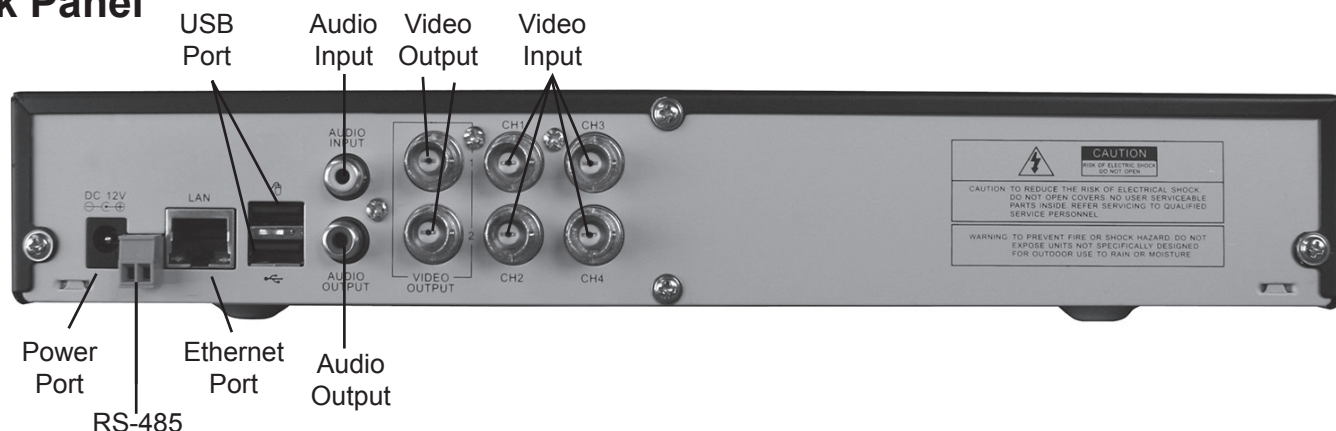
1	Power Indicator	LED is lit green when power is on
2	IR Receiver	Infrared receiver for the remote control
3	HDD Indicator	LED flashes red when DVR is reading the hard drive
4	Channel Select 1 thru 4	Used to select individual channels (cameras)
5	QUAD	Used to view all the cameras at once
6	REW	Used for rewind when playing recordings or move to the left when navigating the menus
7	PAUSE	Used to pause, and then play frame by frame when playing a recording Used to enter auto sequence when in live feed
8	PLAY	Used to play a recording in playback or enter the Video Search menu during live feed
9	FWD	Used to fast forward when playing a recording, or move to the right when navigating in the Setup menu, or select when navigating in the Menu List
10	STOP	Used to stop playback, or to stop recording
11	REC	Used to start manual recording
12	MENU/ESC	Used to enter and exit the menus
13	UP	Used to move up a selection in the menu list
14	SEL/EDIT	Used to select an item in the menus
15	DOWN	Used to move down a selection in the menu list
16	PTZ	Used to move to PTZ (pan/tilt/zoom) control mode

Remote Control



0 - 9	Number Keys (1 - 4 Channel Select)
All	Display All Channels
Menu	Enter / Exit Menu
▲ / ▼	Up / Down
◀ / ▶	Left / Right
SEL	Select
Audio/ Search	Search or switch audio channels
Mute	Turn on/off audio output
◀◀	Rewind
▶	Play, video search menu
▶▶	Forward
●	Record
	Pause in Playback / auto sequence in live feed
■	Stop

Back Panel



USB Port	2 built in USB (2.0) ports for backup, upgrade, and/or mouse operation
Audio Input	Connect Audio for one camera
Video Output	Connect Video to monitor
Video Input	Connect cameras to DVR

Power Port	Connect Power adapter to DVR
RS-485	PTZ control port
Ethernet Port	For network connections
Audio Output	Connect speakers to DVR

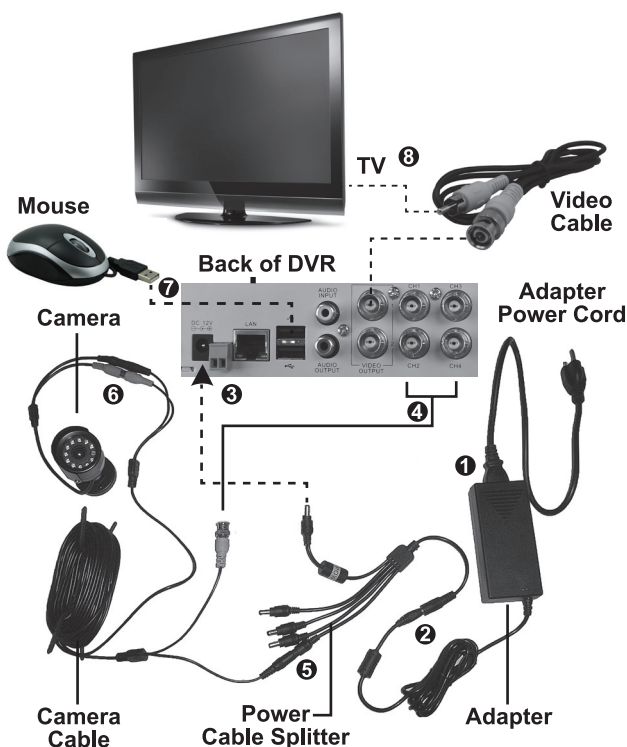
Set up

IMPORTANT: Before mounting any of the cameras, test the unit by hooking up all the connections as shown below, and testing all the features to insure the unit is working properly. There are two 6mm cameras for longer range, and two 3.6mm cameras for wider angle, shorter range, viewing. Test the cameras for the best location before installing. Each camera is labeled on the side of the unit.

1. Designate a work area that is clean and well-lit. The work area must not allow access by children or pets to prevent distraction and injury.
2. Route the power cord and all cabling along a safe route without creating a tripping hazard or exposing the cord and cables to possible damage.
3. Use a surge protector (sold separately) to help guard against electrical power fluctuations.

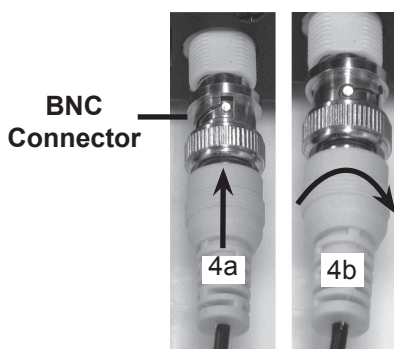
Cable Connections

You will initially need to connect the DVR to a TV monitor in order to adjust the settings, regardless of your final intended set up.



To connect the camera and power components to the DVR:

1. Attach the Adapter Power Cord to the Adapter.
 2. Attach the Power Adapter Cable to the single end of the Cable Splitter.
 3. Attach the connector marked "DVR Power" to the Power Input Jack on the back of the DVR.
 4. Working with one Camera Cable, attach the yellow video BNC Connector (the largest connector on the cable) to one of the camera connections on the back of the DVR (CH1, CH2, CH3, or CH4).
 5. Attach the black power connector at the BNC end of the same cable to one of the remaining Cable Splitter connectors.
 6. Attach the connectors at the other end of the Camera Cable to the same color connectors of one of the Cameras.
- Repeat steps 4 through 6 for each of the other three Cameras and Camera Cables.
7. Plug the Mouse into one of the USB ports.
 8. Attach the BNC connector of the Video Cable to one of the video output ports on the back of the DVR, then attach the other end of the cable to the video port of the TV. Plug the TV into a wall outlet. The unit will power up.



To connect the BNC Connectors:

- a. Align the slots on the BNC Connector with the pins on the DVR connection and push the BNC Connector in so the pins slide into the slots.
- b. Turn the connector clockwise to lock the pins in place.

System Initializing...

System Initialization

After connecting the cables and the power adapter, the system will boot-up and start initializing.



Main Interface

After system initialization, the system will display the main interface (shown at left before video input status has been entered). Once the video inputs are set up, the interface will display live images from the cameras.

DVR Controls

The DVR can be controlled using the buttons on the front panel of the DVR, the Remote Control, or the Mouse.

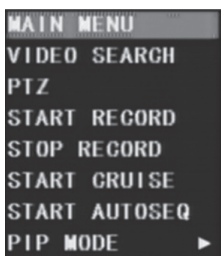
Refer to the charts on page 6 for Front Panel or Remote Control operation.

Use the following for Mouse operation:

- In the Main Interface, to maximize the image to full screen: Double click the live image of any channel. To return to display all cameras: Double click again.
- To enter a Menu: Right click any area of the screen.
- To select menu items in the Menu: Left click any area of the screen.
- To exit the Menu List: Left click any area outside the menu.
- To exit all other menus: Right click any area outside the menu.



Menu List

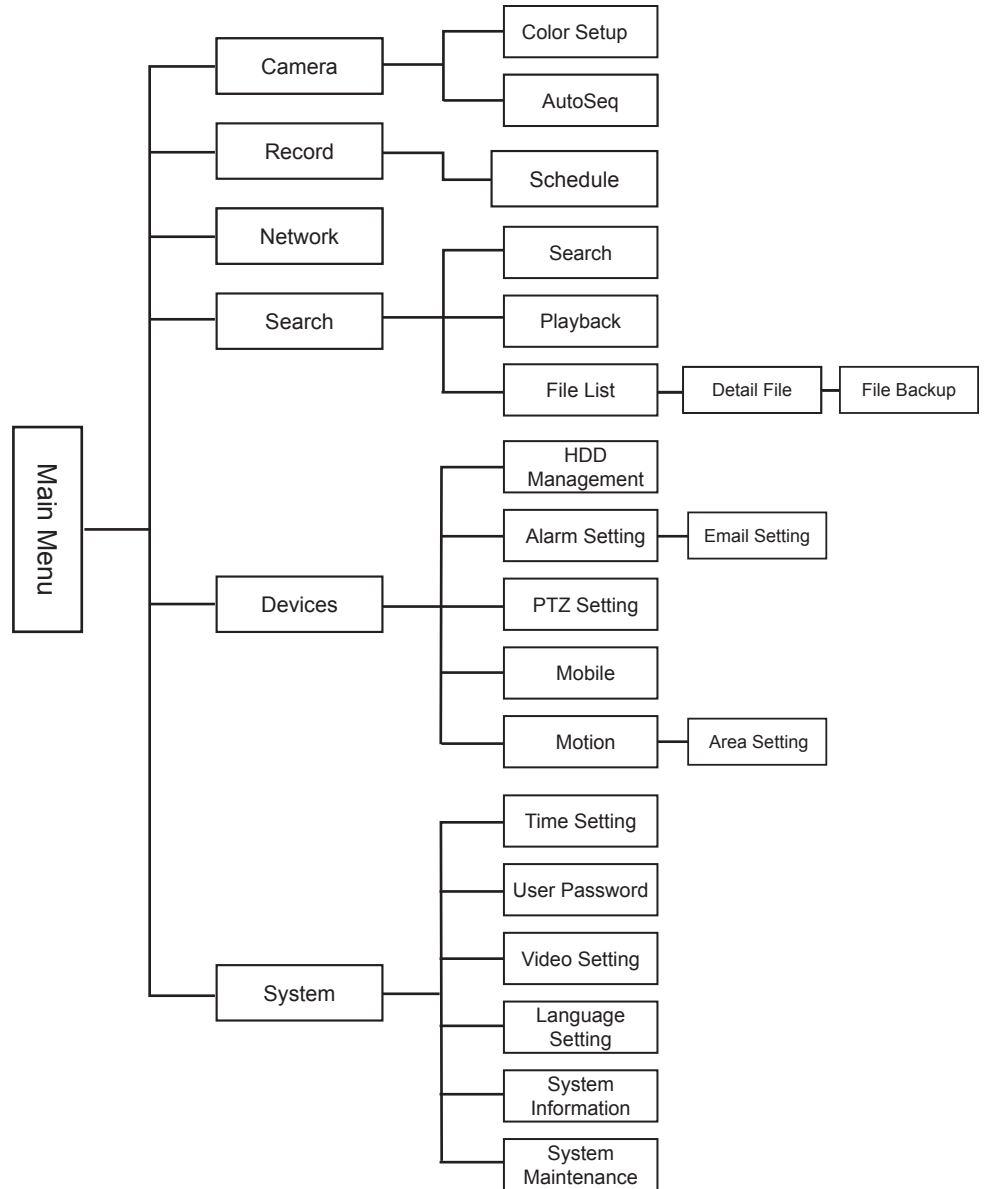


Main Menu



Entering the Main Menu

After finishing system initialization, enter the Main Menu. To enter the Main Menu, press the Menu button on the DVR or the remote control, or right-click the mouse button to bring up the menu list then left-click MAIN MENU.



Main Menu

The Main Menu is for setting up the DVR and cameras for recording, playback network and other access. You can also set system function settings, such as the time, user password, Audio/Video settings, language, system information, and system maintenance.

Note: When setting up or making changes to the program settings, you must press APPLY to have the settings take affect.

Note: To save changes, you must press APPLY.

	TITLE	POSITION	COLOR	LIVE
CH1	CH1	UPLEFT	SETUP	ON
CH2	CH2	UPLEFT	SETUP	ON
CH3	CH3	UPLEFT	SETUP	ON
CH4	CH4	UPLEFT	SETUP	ON

DISPLAY TIME WHILE IN LIVE VIEW ON

DISPLAY TIME WHILE RECORDING ON

Set the Channel Name

PRIVACY ZONE AUTOSEQ DEFAULT APPLY EXIT

Camera Setup - Channel Title, Position, Live Display

In the Main Menu select CAMERA. The Display Setup menu will display (shown at left). You can edit the name of each channel (camera) and change the position where the name is displayed. Set up whether each channel can be previewed or not under Live display and/or Recording mode.

Note: The name of each channel supports up to eight characters.

Color Setup - Image Brightness, Saturation, Contrast, Hue

1. In the Display Setup submenu, select SETUP under the COLOR column for one camera. The color setup sub-menu will display (shown at left).
2. Adjust the hue, brightness, contrast and saturation, then click APPLY. You will be prompted to save, click OK, then EXIT.
3. Repeat steps 1 and 2 for each camera.

Note: If you want to cancel the modification, click EXIT to exit the menu.

4. Click DEFAULT to return to default values.

HUE : 0

BRIGHT : 31

CONTRAST : 31

SATURATION : 31

DEFAULT APPLY EXIT

Autoseq - Image Auto Cycle Function

In the Display Setup submenu, select AUTOSEQ to enter the auto cycle submenu, (shown left). In the auto cycle function, the system will automatically rotate the video images from a full screen image of each channel (CH1, CH2, CH3 and CH4), then Quad (all channels), then repeat.

Default rotation time is 5 seconds.

The time range is adjustable from off to 10 seconds.

Note: After selecting APPLY in AUTOSEQ, you can exit the menu and click PAUSE on the front panel or remote control, while in live playback, to activate this function.

	CH1	CH2	CH3	CH4	QUAD
	5S	5S	5S	5S	5S

DEFAULT APPLY EXIT

CHANNEL	CH1	CH2	CH3	CH4
PRIVACY ZONE	ON	OFF	OFF	OFF

AREA SETUP

AREA 1 AREA 2 AREA 3 AREA 4

MASK AREA SETUP SETUP SETUP SETUP

Whether to open privacy zone

DEFAULT APPLY EXIT

Privacy Zone

In the AUTOSEQ submenu, select PRIVACY ZONE to select 1 to 4 areas of the screen to block from view. Using the mouse, click and drag to create the size of the area to block, then click the box and drag it to the desired location. A black box will display on the screen and block that area from viewing and recording.

Note: To save changes, you must press APPLY.

Record Setup - Resolution, Quality, Audio, Record Time

In the Main Menu select RECORD to enter the Record Setup submenu (shown at left).

The Record Setup menu allows you set the recording status (on/off) of each channel, the image resolution and quality, and whether audio is on or off. This menu also allows you to select recording mode (recording as soon as the DVR has booted up vs. scheduled recording), and recording file length.

Once a channel is set to “on”, the channel can record, if it is set to “off”, the video from the channel will not be recorded. Resolution options are D1, HD1 and CIF; and Quality options are Best, Good and Normal - lower quality means a smaller recorded file size.

Note: In NTSC format, pixel resolutions are:

D1:	704 x 480
HD1:	704 x 240
CIF:	352 x 240

When Audio is set to “On”, the system will also record audio from the microphone (sold separately) attached to the audio input, and will have audio output on playback mode; if it is set to “off”, you can not record audio and will have no audio output available on playback mode.

Record Schedule

To record 24 hours a day, set the Rec Mode to ALWAYS. To record on motion or a set schedule, select Time Schedule Record and select the SCHEDULE option. The Schedule submenu will display (shown at left): Recording options include CH-1, CH-2, CH-3, CH-4 or All channels. Click the desired option.

To set up weekly schedules, select the box of the recording status you want (ALARM (motion detected), GENERAL, or NO RECORD) and then click on each box in the schedule time line that you want this method to apply to. You can use the [From – To] pull-down menus at the bottom of the screen and the COPY button to copy settings from one day to another day. After completing the schedule, activate it by clicking APPLY.

Select DEFAULT to restore the system defaults.

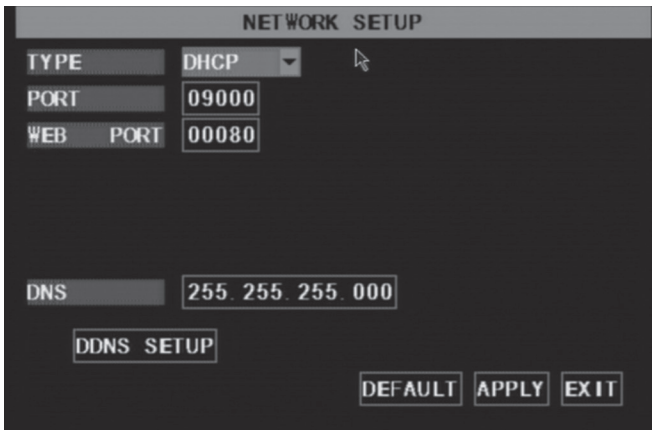
Note: Each box in the SCHEDULE sub-menu represents one hour in a 24 hour cycle. The background color stands for no recording, “Red” stands for alarm or motion detected recording, “Green” stands for general or normal recording and “Black” stands for no recording.

DVR Recording Time

The DVR recording time capacity varies depending on the quality setting, the resolution option and the number of cameras recording at the same time. The chart at left shows examples of maximum recording times at different settings.

Sample Recording Hours				
Maximum Recorded hours	Number of Days if recording 24 hours a day	Quality setting	Resolution	Number of Cameras Recording
2688	112	Lowest (Normal)	CIF	1
672	28	Lowest (Normal)	CIF	4
288	12	Best	CIF	4

Note: To save changes, you must press APPLY.

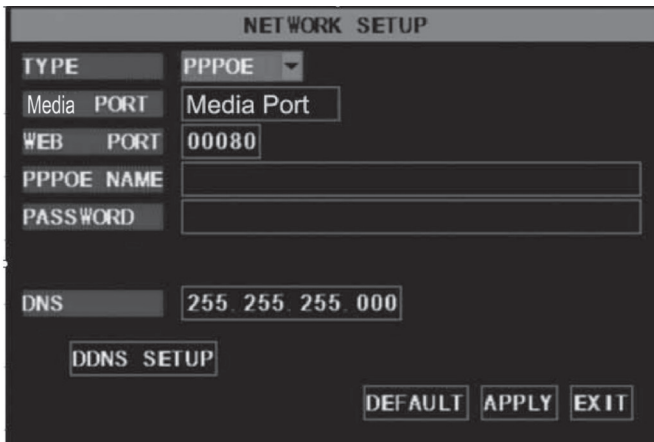


The screenshot shows the 'NETWORK SETUP' menu. At the top, 'TYPE' is set to 'DHCP' with a dropdown arrow. Below it, 'PORT' is '09000' and 'WEB PORT' is '00080'. Further down, 'DNS' is '255.255.255.000'. At the bottom left is a 'DDNS SETUP' button, and at the bottom right are 'DEFAULT', 'APPLY', and 'EXIT' buttons.

Network Setup

In the Main Menu, select NETWORK SETUP to enter the Network Setup menu. Select network Type - such as DHCP, PPPOE, or static allocation. (See following sections for network type information.) Enter Port information and Web Port (Media port 9000 and web port 80 by default).

Note: When selecting DHCP the router will allocate DVR IP address automatically after you exit the menu. Write down the addresses assigned and then switch to static and re-enter the addresses so the router does not change them later.



The screenshot shows the 'NETWORK SETUP' menu with 'TYPE' set to 'PPPOE'. Below it, 'Media PORT' is 'Media Port' and 'WEB PORT' is '00080'. There are empty input fields for 'PPPOE NAME' and 'PASSWORD'. Further down, 'DNS' is '255.255.255.000'. At the bottom left is a 'DDNS SETUP' button, and at the bottom right are 'DEFAULT', 'APPLY', and 'EXIT' buttons.

PPPoE

When selecting PPPoE, input the user name and password provided by your internet service provider and enter the media port and web port information.

Note: To save changes, you must press APPLY.

```
Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.0.6001]
Copyright (c) 2006 Microsoft Corporation. All rights reserved.

C:\Users\Rod> ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : dps.local
    Link-local IPv6 Address . . . . . : fe80::e822:7476:52e7:8c3c%8
    IPv4 Address. . . . . : 192.168.1.031
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.1.1

Tunnel adapter Local Area Connection* 6:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : dps.local

C:\Users\Rod>
```

Static Addresses

When selecting static allocation, you will need to set up the network settings on the DVR to match the settings of the router that you attach to the DVR. To find the router settings, working on a PC computer attached to the same router as the DVR, go to START (lower left of screen), click Run, type “cmd” then ENTER to bring up a command prompt. Type “ipconfig” then ENTER, to access the router settings. (See image, top left). Write down the gateway and subnet mask numbers, then close the window.

NETWORK SETUP

TYPE	STATIC
MEDIA PORT	09000
WEB PORT	00080
IP ADDRESS	192.168.001.100
SUBNET MASK	255.255.255.000
GATEWAY	192.168.001.001
DNS	202.096.128.068

DDNS SETUP

DEFAULT APPLY EXIT

NETWORK SETUP

TYPE	PPPOE
PORT	09000
WEB PORT	00080
PPPOE NAME	
PASSWORD	
DNS	255.255.255.000

DDNS SETUP

DEFAULT APPLY EXIT

In the DVR Main Menu, select [NETWORK] to enter the NETWORK SETUP MENU. Go to TYPE and select STATIC. For the DVR's IP address enter the same first 3 sets of numbers as the router's gateway and select a fourth set of numbers that is different than any other device attached to the same router. If the IP address of your computer in the ipconfig was a single or two digit number, enter any three digit number. If the computer IP address ends with a number in the 100s, enter a number in the 200's. After you enter the addresses click APPLY.

At the bottom of the NETWORK SETUP window there is an option to setup the DVR to be accessed through a DDNS service. When you click on the DDNS button it brings up the window displayed as shown bottom left. You can access the DVR through a static or dynamic IP address; however a dynamic address can change from time to time. How often depends on your service provider. When it changes you need to find out what the new IP address is and re-enter it. To avoid this, get a static IP address from your service provider so that you do not have to re-enter the address when it changes. Another solution would to use a dynamic domain name service to get a domain name that can be linked to your dynamic address.

There are services that allow you to get a domain name, user name, and password. You can then enter Your dynamic domain name into an Internet Explorer browser instead of an IP address and be directed to whatever the current dynamic IP address is, so that you can always access the DVR by entering the same address.

Note: To save changes, you must press APPLY.



Device Management

Options in device management includes hard drive, External Alarm, PTZ control, Mobile Phone Monitoring, and Motion Detection.



HDD Management

In the Main Menu→Device → HDD] to enter [HDD Management] menu. When you install a HDD, the system will automatically detect whether the HDD is formatted.

Menu Descriptions

HDD STATUS: Indicates Hard Drive status. Displays “No Disk”, “Not Format” if Hard Drive needs formatting, and “Normal” if Hard Drive is formatted and ready to use.

TOTAL SPACE: Indicates total space available on Hard Drive.

FREE SPACE: Indicates unused space available on the Hard Drive.

USABLE REC TIME: Based on current image detail/ quality and frame rate, system will show you how much recording time you have left on the Hard Drive.

OVERWRITE: If you select “on” the system will automatically overwrite the oldest recordings once the hard drive is full; if you select “off”, recording will stop once the hard drive is full.

HDD FORMAT: You use this option to format the hard drive, you can not record files to the hard drive until it has been formatted. Click [Format HDD] button to start formatting. When selecting [Format HDD] option the system will prompt you – “Format HDD will loss all the data, do you confirm?” ; click “OK”, system will prompt you – “Is formatting...” and “successful format”; and then system will restart automatically.

USB FORMAT: Use this option to format USB devices.



Note: To save changes, you must press APPLY.



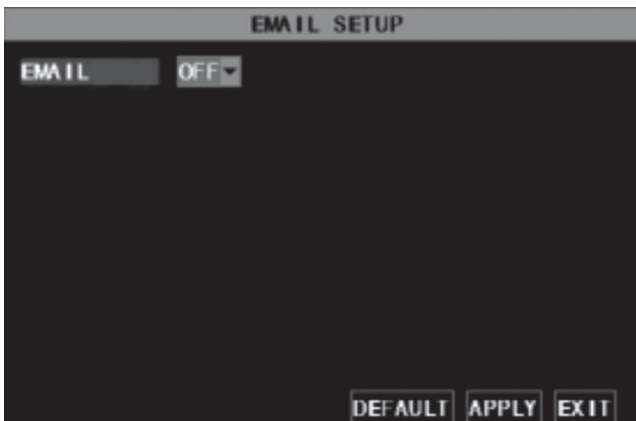
Alarm Set

Click [Main Menu→Device → Alarm] to enter into [Alarm setup] menu to setup Alarm warnings.

HDD LOSS: Options are “ON” and “OFF”. If you select ON there will be a buzzer sound and “H” sign on screen when the HDD is not detected or not formatted. If the function is set to OFF, there is only “H” sign to indicate HDD not found, but no alarm sound when HDD not found or not formatted.

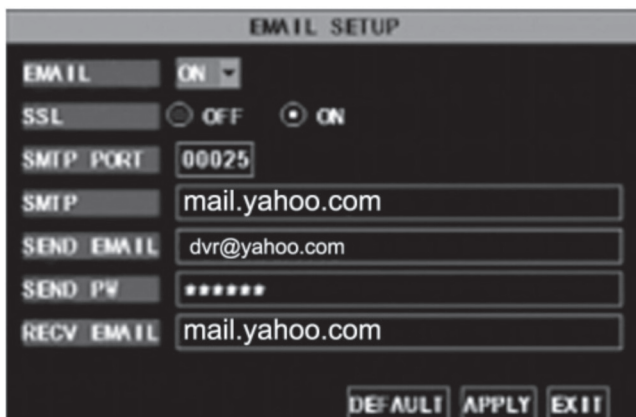
HDD SPACE: Options are “ON” and “OFF”. When the alarm function is ON, there are alarm sounds when the HDD is running out of space; when the function is OFF, there are no alarm sounds.

VIDEO LOSS: Options are “ON” and “OFF”. When the function is ON, system will issue alarm sound and display video loss on the preview interface; when the function is OFF, system will have no alarm sound, but the preview interface will display video loss.



Email Alarm Notification

This option sends a notice to an email account when the motion alarm is triggered. Click the [Email setup] menu to enter the sub menu. Check email box and set up the address.



When ON is selected, you are prompted to enter the email information. Consult your email provider for settings for this menu if needed.

Note: Once this option is set up, be sure to clear the received images from your email account regularly to avoid overloading your email account.

Note: To save changes, you must press APPLY.

PTZ SETUP				
CHANNEL	CH1	CH2	CH3	CH4
PROTOCOL	PELCO-D	PELCO-D	PELCO-D	PELCO-D
BAUD RATE	9600	9600	9600	9600
DATA BIT	8	8	8	8
STOP BIT	1	1	1	1
PARITY	NONE	NONE	NONE	NONE
CRUISE	OFF	OFF	OFF	OFF
ADDRESS	001	001	001	001
DEFAULT APPLY EXIT				

PTZ Setup (Pan/Tilt/Zoom)

(PTZ cameras not included)

Click [Main Menu→Device→ PTZ Setup] to enter the PTZ Setup menu.

Select the channel you want to control and set PTZ protocol (Pelco-D or Pelco-P), Baud Rate (1200, 2400, 4800, 9600), Stop bit (1, 2), Parity Check (None, Odd, Even Mark Space), and Address Code.

Note: The above mentioned channel settings must match the settings of the PTZ camera.

Set CRUISE to ON to enter the sub menus that adjust the individual camera settings.

Click Z+&Z- keys to zoom In or out, click F+&F- keys to control camera focus and click I+&I- to adjust iris.

CRUISE SETUP

Click CRUISE SET to open the auto cruise function window if you want to adjust the cruise function. The system default is ON.

CH#: Select the channel number with the PTZ camera

TOTAL: Enter presetting bit quantity.

CUR POINT: System has default starting (current) cruise point as 01. You can use this option to set additional cruise points.

STOP TIME: Adjust the pause time at each stop.

GOTO: Select this option to go to specific preset points.

SET: Saves the preset point. After setting channel and setting the position by adjusting PTZ direction key click SET to setup the pre-set point. Please note you need to click SAVE to finish the setup successfully. If you want to combine Zoom, Iris, Focus and direction keys into the pre-set setting, return to previous menu to add additional settings, and then enter into Cruise Set again and click SET and SAVE to make sure your setting is setup successfully.

CLEAN: Removes settings.

Note: This DVR model supports up to 100 pre-set points. But actual quantities may be restricted by the PTZ camera you are using.

PTZ SETUP	
SLOW	31 FAST
	— ZOOM + — FOCUS + — IRIS +
CRUISE SET EXIT	

CRUISE SETUP	
CH1	
TOTAL: 0	
CUR. POINT 01	
STOP TIME 03	
GOTO SET CLEAN	
SAVE EXIT	

MOBILE	
USER NAME	guest
USER PASSWORD	*****
SERVER PORT	18000
DEFAULT APPLY EXIT	

Mobile

Click [Main menu→Device→Mobile] to enter into [Mobile] menu.

USER NAME: Enter the user name of the DVR.

USER PASSWORD: Enter the user password of the DVR.

SERVER PORT: Enter the mobile monitoring port. Setting range is between 1024 and 65535.

Note: Connect the DVR to the Internet before setting the DVR port number and the server port number. Consult your mobile provider for additional information.

Note: To save changes, you must press APPLY.



The screenshot shows a menu titled "MOTION DETECT" with four columns for channels CH1, CH2, CH3, and CH4. The rows are labeled MD CHANNEL, STATUS, SENSITIVITY, and MD AREA. STATUS is set to ON for all channels. SENSITIVITY is set to 2 for all channels. MD AREA has a SETUP button for each channel. At the bottom, there is a help icon and the text "MD setup for each channel", and three buttons: DEFAULT, APPLY, and EXIT.

MD CHANNEL	CH1	CH2	CH3	CH4
STATUS	ON	ON	ON	ON
SENSITIVITY	2	2	2	2
MD AREA	SETUP	SETUP	SETUP	SETUP

MD setup for each channel

DEFAULT APPLY EXIT

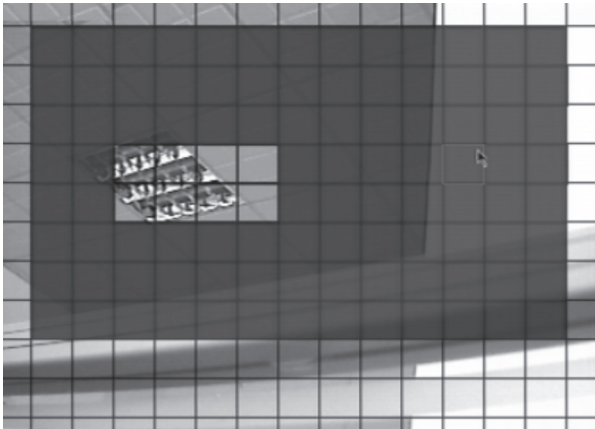
Motion Detect

Click [Main→Device→Motion] to enter into the MOTION DETECT menu to setup motion detection recording.

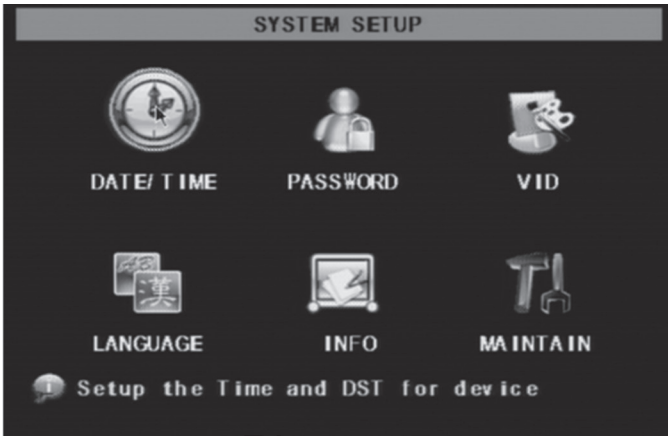
STATUS: Turn ON or OFF motion detection for each channel.

SENSITIVITY: Set each channel's sensitivity level of motion detection from 1 to 4 with 4 being the most sensitive.

MD AREA: This option allows you select the area you want to be sensitive to motion. A new window displays with a grid separated into a 13 by 10 block area. Select areas in red where motion detection is desired. When any object moves into the motion detection area, (the red areas of the grid) recording will be triggered. In the shaded area the motion detection is off.

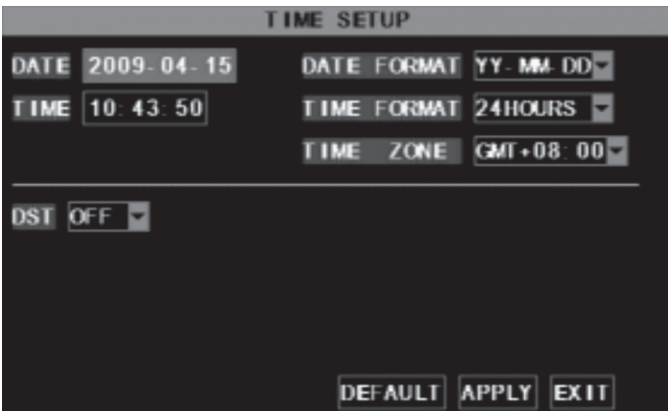


Note: To save changes, you must press APPLY.



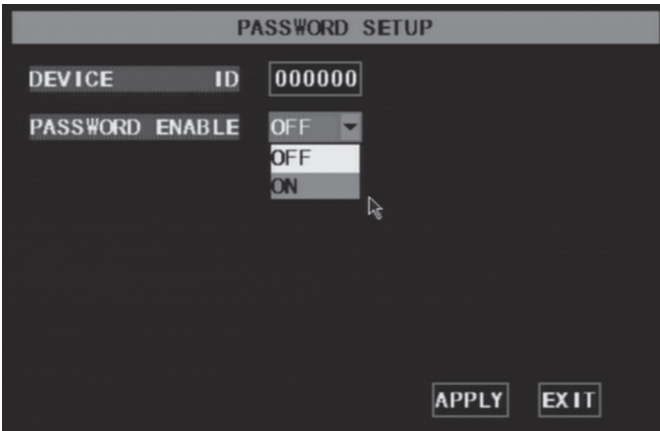
System Function

The [System] Menu includes sub-menus for Time Set, User Password, Audio/Video Setting, Language select, System Info and System Maintenance. After entering into the [System], you can configure the system to meet your needs.



Time Setup

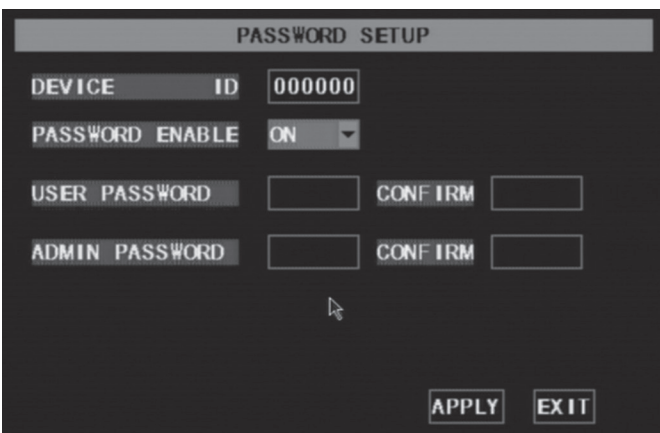
Click [Main Menu→System→Date/Time] to enter the time setup menu. Use this menu to modify the system date, time, date/time format and time zone, and also setup DST (daylight savings time) status and mode.



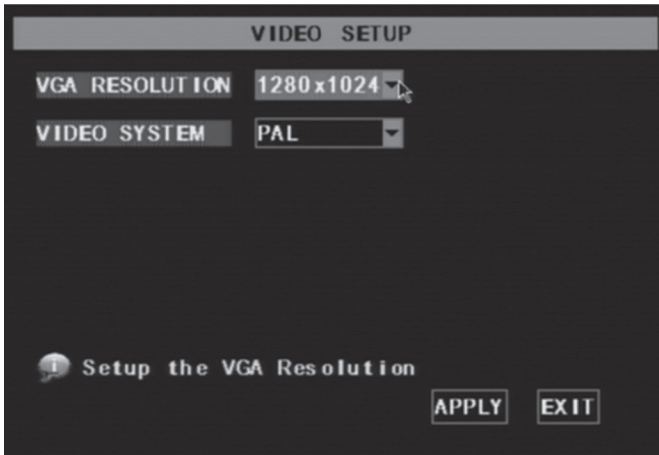
Password

Click [Main Menu→System→User Password] to enter the Password Setup menu. This option allows you set the device ID for the DVR and set the system password if you want to use one. The new passwords will be available after clicking APPLY.

When you set Password Enabled to "ON", you can setup a user password and administrator password respectively. The password supports up to 6 characters.



Note: To save changes, you must press APPLY.

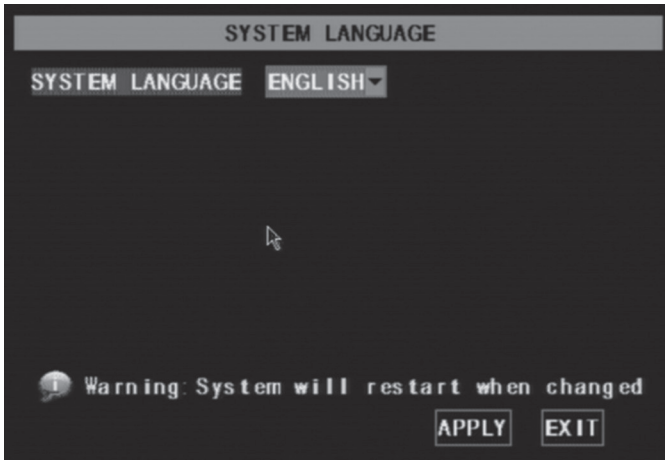


Video Setup

Click [Main Menu→System→VIDEO] to setup Video, here you can set Camera system to PAL, or NTSC. In the USA use NTSC.

You can also set the resolution for the VGA video out port. Your options are 800x600, or 1024x768, or 1280x1024.

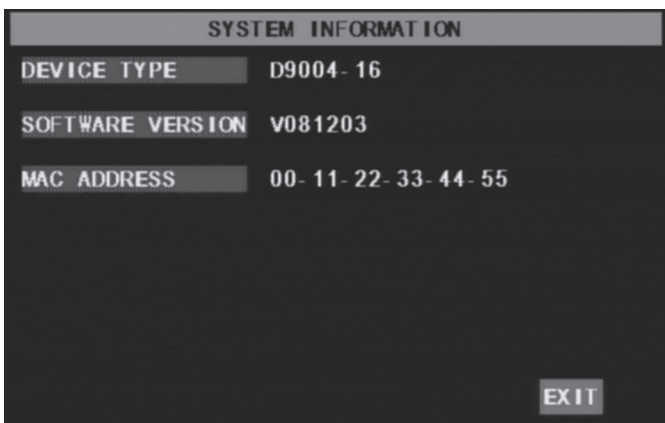
Note: This item does not have a VGA video out port.



Language

Click [Main Menu→System→Language Select] to enter the Language Select menu. Select the language then click APPLY. The selection will be available after system Auto restarts.

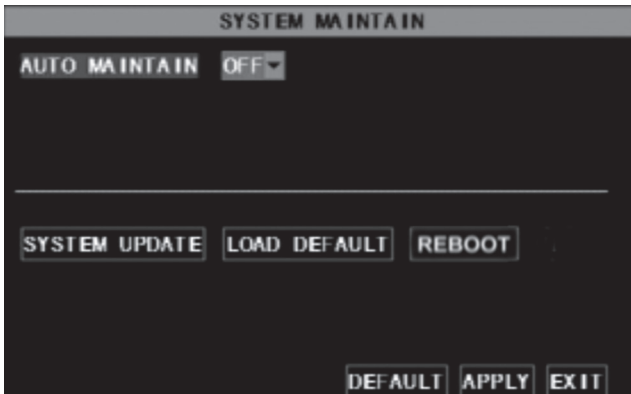
Note: This option is available only when the DVR comes with Multiple language OSD.



Information

Click [Main Menu→System→System Information] to enter the System Information menu. View system info, including Device type, Software (firmware) version and MAC address.

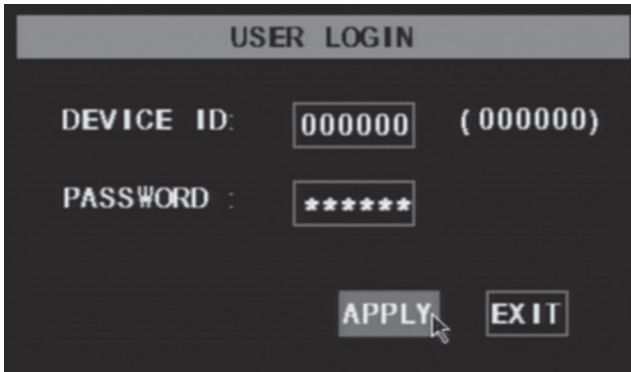
Note: To save changes, you must press APPLY.



System Maintenance

Click [Main Menu→ System→System Maintenance] to enter the System Maintenance menu. This option allows you reset the DVR to factory default settings, update system software (firmware), and set system auto-maintenance.

When opening auto-maintain function, you can setup system to restart regularly.



Menu Lock

As a system safety feature you can click [Menu Lock] menu to lock menu when leaving the DVR. If you want to login to the DVR, you would input the device code and password.

Note: The user only has the authority to search recordings, but the Administrator has full authority over Main Menu operations.

Basic Operation

Once you have set up your DVR, it will run based on the programmed schedule. You can view and change functions through the Menu List. Following is a description of the menu options.

PIP (picture-in-picture) and DIGITAL ZOOM are only available through the menu list as described below.

Navigating the Menu List

You can enter and navigate the Menu List with the Buttons on the DVR, the remote or the Mouse.

To navigate using the mouse:

- Right click to display the Menu List.
- Left click on the item to select it.

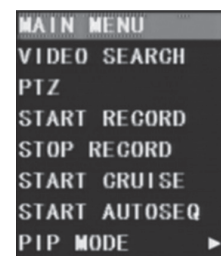
To navigate using the DVR buttons:

- Press SELECT to display the Menu List.
- Press UP or DOWN to move up and down the list.
- Press FAST FORWARD to move to the right
- Press SELECT to select an item on the list.

To navigate using the remote:

- Press SELECT to display the Menu List.
- Press UP, DOWN, RIGHT or LEFT to move through the list.
- Press SELECT to select an item on the list.

Menu List



MAIN MENU - Select to edit and/or view your settings and system set up.

VIDEO SEARCH - Select to search, play and/or backup recordings.

PTZ - Select to control the pan/tilt/zoom function (cameras with this function are not included).

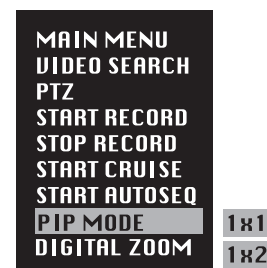
START RECORD - Select to manually begin recording. Note: if you have recording already scheduled, you can override the motion detect setting, or the no record setting, by choosing this function.

STOP RECORD - Select to stop recording.

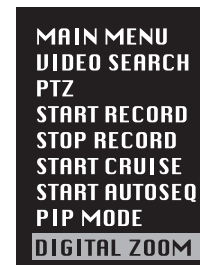
START CRUISE - Select to begin the PTZ cruise function set up in the setup menu (cameras with this function are not included).

START AUTOSEQ - Select to begin an automatic cycling of the camera displays.

PIP MODE - Select to enter picture-in-picture mode. Choose 1x1 to open one extra window, or 1x2 to open two windows. With the mouse, left click on any window to cycle through the channels and display a different channel.



DIGITAL ZOOM - Select to zoom in on a single channel. Digital Zoom will only be visible on the Menu List when one of the cameras is set to full screen, and can only be set up using the mouse. Select Autoseq mode then re-display the Menu List to view the Digital Zoom function at the bottom of the list if it is not already displayed. Select Digital Zoom. Using the mouse, left click, hold and drag, to highlight the area to zoom in on. Release when you have highlighted the area that you want. A picture-in-picture window will display, showing a box (the selected area). To move the box, left click and hold the box, drag it to the desired location, then release. To change the selection, right click to clear the selection then re-select. To exit Digital Zoom mode right click twice.



Recorded Video Search and Playback

Once recordings have been made, you can locate them through the Video Search menu to play back and backup to another location.



Video Search

In the Main Menu select SEARCH to enter the Video Search menu (shown at left), or from the Menu List select VIDEO SEARCH.

To Search by Date

Input a specific date (YYYY-MM-DD) and click SEARCH, to find all the recordings for that day. Click on the day you want to view to playback the recordings in 4 channel mode; or, click FILE LIST to display the File list screen, where you can playback or backup the file you selected.

You can play video Forward at 2x, 4x, and 8x speeds, slow play at 1/2x, 1/4x, and 1/8x, normal play, pause and play frame by frame using the playback control bar, and adjust volume by clicking or sliding tune control bar. When playback has finished, the system will return to the previous menu.

To Search by File

On the Video Search screen, after choosing a date, click FILE LIST. The File List menu (shown below left) will open. In this window you can view all of the available files on that day by channel and type (all, normal, or alarm).

To select a file, push the SEL button to playback the file, or use the FWD button and down button to select the option and backup the recording file you selected. You can also put a check mark in the box at the end of multiple files if you want to backup more than one file.

Controls along right side of screen

FIRST: Indicates the first page of recording history on that day. When you view other pages, click FIRST to bring you back to Page one.

PRE (Previous page): Click PRE to take you to the previous page (except the first page).

NEXT (Next page): Click NEXT to take you to the next page (except the last page).

LAST (Last page): Click LAST to take you to the last page of recordings for that day.

ALL (Select All): Click ALL to select all the events on the current page.

REVERSE (Invert selection): Click REVERSE to select all the events on the current page except those you have currently selected.

BACKUP: Click BACKUP to save your selected files to backup. See following for backup procedure.

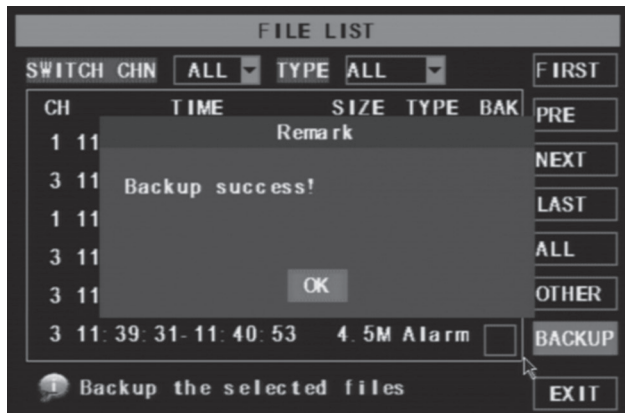




Recording File Backup

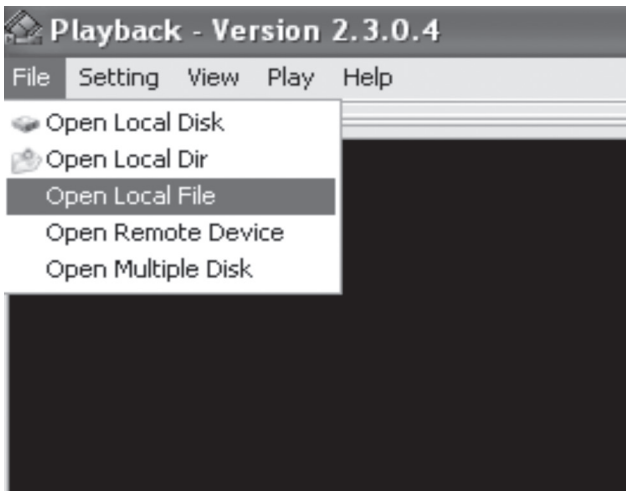
If you want to backup one or more selected recordings from the file list, select the recording(s) and click BACKUP. When the backup is completed you will be notified. Click OK to confirm and complete the backup process.

Note: The Backup file will be in H264 format. You can convert it to AVI format using the Multimedia Player program that comes with the DVR (Playback 2.3.0.4) or through the net-viewer program, allowing you to use any player which supports AVI format.



Playback Program

Playback, included on the disk, is an alternate program that you can use to view recordings from the DVR.



Using Playback

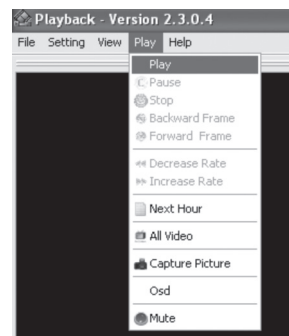
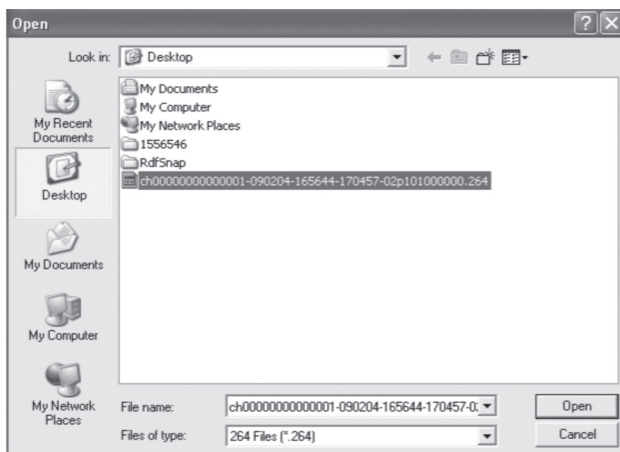
Copy the program to your PC. Copy the backup file you want to play to your PC.

1. Open the program and click [File→ Open Local File] to find/select the backup file (shown at left).

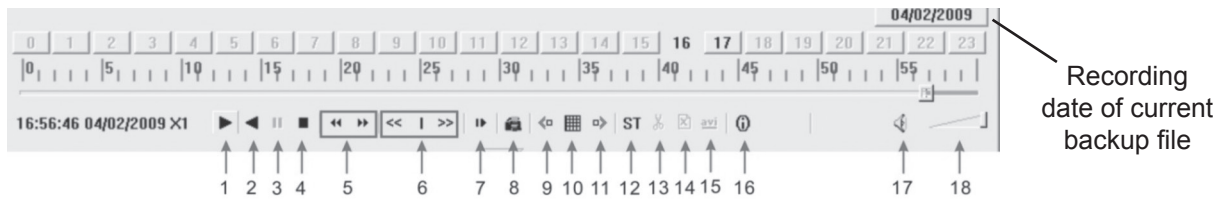
Note: The file type you have selected should be *.264 format.

2. Highlight the file and Click OPEN (shown lower left).
3. Open the “Play” window on the top of the multimedia player interface and select PLAY.

4. Click the pop-up menu button  on the bottom of the Playback program window, then the play (1) triangle to play the backup file.



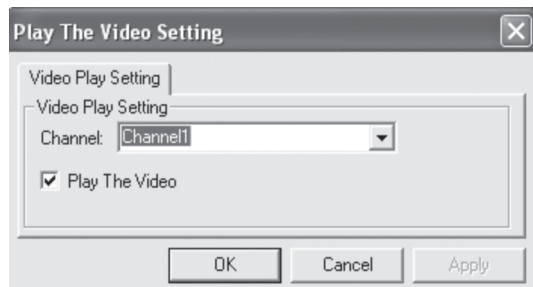
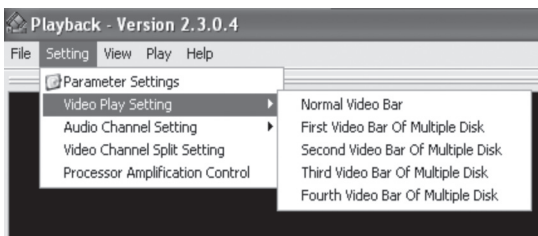
Playback Menu Controls



1	Play
2	Previous Recording File
3	Pause
4	Stop
5	Previous Frame / Next Frame
6	Slow Play, Normal Play, Fast Play

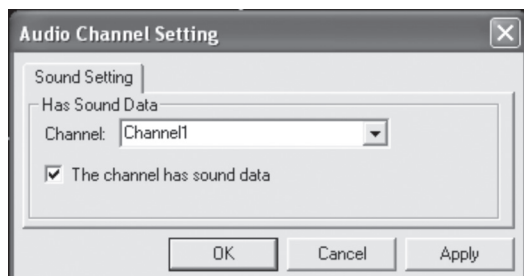
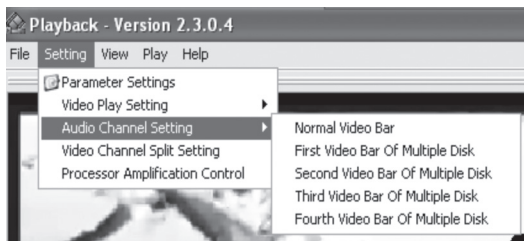
7	Next Hour
8	Capture Picture
9	Reduce Window
10	All Windows
11	Add Window
12	Start

13	Cut
14	Delete
15	Convert to AVI
16	On Screen Display
17	Mute
18	Volume



Playback Settings

The default setting for video playback is a display of all four channels. To change the setting to view only one channel, click [Setting→Video Play Setting→Normal Video Bar]. Choose the desired channel in the Channel window, then check "Play The Video". Click APPLY, then OK.

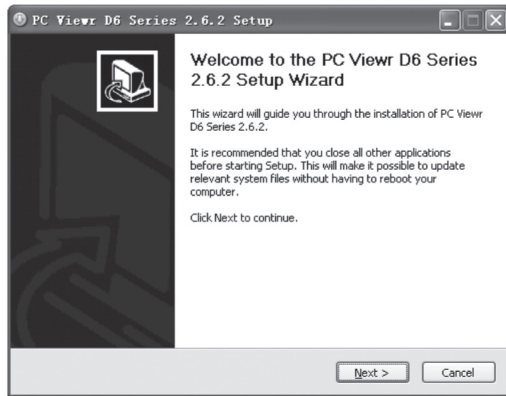


To set the Audio, Click Setting→Audio Channel [Setting→Normal Video Bar]. Choose the desired channel in the Channel window, then check "The channel has sound data". Click APPLY, then OK. This allows you to open the channel's audio function at the same time as the video.

Note: This setting will take effect after re-starting the multimedia player.

Net-Viewer Program

Installing Software



The Software CD includes a PC viewer program for the DVR (DxClient 2.7.1). This program is for backing up video files and remote access. You may also need to change the security settings of the web browser.

To install the PC Viewer program:

1. Insert Software CD into your computer's CD-ROM drive.
2. Open the CD directory.
3. Double click on "DxClient 2.7.1-ENG".
4. Run the "Install" program.

Follow the setup wizard to finish the installation.

Adding DVR to Trusted Sites

Every computer that is accessing the DVR will need to be configured to download and run ActiveX controls. This is a one time change and only needs to be made on the computer that is accessing the DVR. This can be done by changing your web browser settings so it only affects websites that you specifically add to the trusted sites list. Or you can change the setting for all websites. It is recommended that you only change the setting for your trusted sites.

CAUTION: Lowering the safety settings of your computer can open your computer up to viruses. Do this at your own risk.

To add the DVR's IP address to the Trusted Sites on a common web browser:

5. Open your web browser.
6. Click on TOOLS.
7. Click on INTERNET OPTIONS.
8. Click on SECURITY Tab.
9. Click on TRUSTED SITES.
10. Click on SITES button.

11. Type in the IP address of the DVR in the following format:

HTTP://**129.168.1.108**

Note: The **bold underlined** numbers are your IP address and will be different from the numbers shown in the above example.

12. If "Require server verification (https:) for all sites" is selected you will need to uncheck the selection box.
13. Click ADD.
14. Close window.

To change the default setting for the TRUSTED SITES zone to low, on the Main Settings:

1. Click on DEFAULT LEVEL.
2. Change security level of the zone to "Low" by sliding the slider to the bottom.
3. This will allow ActiveX controls from the DVR to be downloaded and the DVR to be viewed on the computer.
4. Click APPLY.
5. Click OK.

You should now see the connected cameras on the computer screen in the DxClient backup program. Follow the instructions for "Backup Program" to use the software.

Port Forwarding

Once you have successfully set up and viewed your DVR through a router, you are now able to set up your router to view the DVR while at a remote location. This process is called Port Forwarding. Port Forwarding is required if you want to view the DVR from a computer that is not connected to the same router. This process opens a path on your home/business network to allow you to view your DVR video feed from outside your network (over the Internet).

There are many makes and models of routers. You will need to follow the instructions from your router's manufacturer for port forwarding. Consult online sources or have a qualified computer technician complete this task if needed.

Once you have successfully set up port forwarding from the modem where the DVR is located, you will be prompted to enter your user name (default: admin), password (default: 111111) and install ActiveX controls. You will now be able to view the DVR from any PC in the world with internet access and proper computer settings.

Note: If you cannot use HTTP port 80 or 9000 because it is being used by another program, or it is being blocked by your service provider, you can use another port in the same range. If you do so you will need to forward the IP address of the router to the other port, change the port in the DVR NETWORK settings, and add the port number after the IP address. For example, if you set the HTTP port as 82, you need to enter the IP address as 192.168.0.25:82. (User name and password here are the same as what you use on the DVR.)



Log-in to Net-Viewer

After the webcam installs the plug-ins, select the log-in language (English), enter the password and click LOGIN. You can view DVR remotely through Net-Viewer.

Note: The default password is empty. The system allows the Administrator to set a new password as per instructions the Password Set menu. If you want to delete an old Internet Browser webcam at DVR system update, run the command characters: "regsvr32/u dvrocx.ocx"

Main Log-in Screen

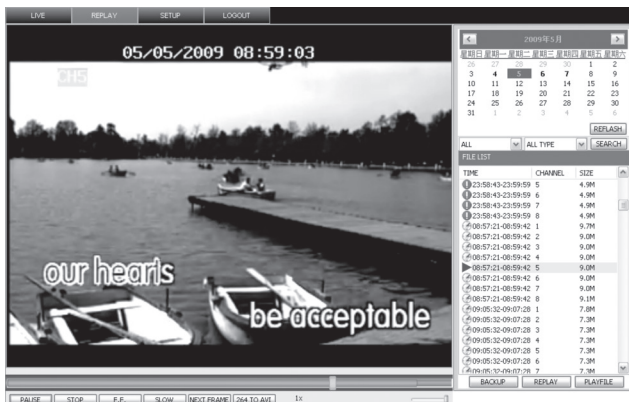


Main Screen Controls

- 1: Drop Down Menu Bar
- 2 - 4: PTZ Control (Pan/Tilt/Zoom)
- 6 - 9: Live Play Control

Live Mode

After successful Log-in to Net-viewer, the system will enter into live display interface and connect to audio/video feed automatically (as shown above).



Replay Mode

This option allows you to playback recordings remotely.

First select the day, channel and type and proceed searching and refreshing; second select any event from search result list to playback.

Please note you can control playing speed by sliding the playing-control bar on the bottom of the screen.

Controls

PLAY: [Play]/[Pause]

STOP: stop playing recording

FAST FORWARD: fast forward playback recording

SLOW: slow playback recording.

NEXT FRAME: play frame by frame.

264 TO AVI: convert file from H.264 format to AVI format

Note: The native format of the backup files is H.264, you can convert H.264 format into more familiar AVI format by clicking the key of 264 to AVI.

Setup Mode

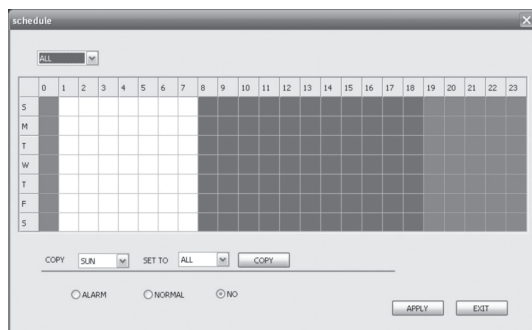
Click SETUP to enter into the sub menu, including [Recording Mode] menu, [Alarm Mode] menu, [PTZ Control] Menu, [Network Setting] menu, [System Setting] menu and [Host Info] menu.

Note: You can only modify and save the parameters remotely when the DVR is set to Live Display. The modification method to the DVR via Net-viewer is the same as local adjustment of DVR.



Record

Click RECORDING MODE to enter the record setup menu. Select on/off for every channel, and adjust recording parameters (resolution, quality, audio, REC mode and Schedule) remotely via Net-viewer.



Schedule

Click SCHEDULE to enter the Schedule setup menu.

Remote setup methods are the same as local DVR setup.

LIVE	REPLAY	SETUP				
RECORD	ALARM	PTZ	NETWORK	SETTING	HOST INFO	
CHANNEL	CH1	CH2	CH3	CH4		
PROTOCOL	PELCO-D ▾	PELCO-D ▾	PELCO-D ▾	PELCO-D ▾		
ADDRESS	1 ▾	1 ▾	1 ▾	1 ▾		
BAUD RATE	9600 ▾	9600 ▾	9600 ▾	9600 ▾		
DATA BIT	8 ▾	8 ▾	8 ▾	8 ▾		
STOP BIT	1 ▾	1 ▾	1 ▾	1 ▾		
VERIFY	000 ▾	000 ▾	000 ▾	000 ▾		

DEFAULT
APPLY

LIVE	REPLAY	SETUP	RECORD	ALARM	PTZ	NETWORK	SETTING	HOST INFO
INTERNET BANDWIDTH: 256K v FILE SAVE PATH: C:\DVR\ v IE PASSWORD ENABLE: ON v USER PASSWORD: ***** ADMIN PASSWORD: ***** RE-ENTER: ***** RE-ENTER: ***** DST: OFF v DST MODE: DEFAULT v START: AM 2:00 v END: AM 2:00 v SUNDAY: JANUARY v SUNDAY: JANUARY v DEFAULT APPLY								

Setting

Click SETTING to enter the Setting Menu.

Click [...] button to preview net-viewer recording saving path and screen capture saving path.

The menu also allows you to set a lower bandwidth for Internet video transmission, set user password, turn daylight saving time on/off, etc.

LIVE	REPLAY	SETUP	RECORD	ALARM	PTZ	NETWORK	SETTING	HOST INFO
HDD STATUS: Used Disk Space 6G/ 250G AVAILABLE TIME: 172 HOUR SOFT VERSION: V081206 MAC ADDRESS: 00-11-22-33-44-55								

Host Information

Click HOST INFO to enter the Host Information submenu. This screen displays the Usage Rate of the HDD, the available recording time, the software version and MAC address.

Troubleshooting

Problem	Possible Causes	Likely Solutions
Monitor does not display image	1. Loose or incorrect connections. 2. Monitor needs adjustment. 3. Camera settings need adjusting.	1. Check that all wire connections are secure and in the correct location. Reconnect all power cable (black) connections. 2. Adjust the image settings on the monitor. 3. Through the Main Menu check that: • In Camera Setup, channel is set to ON. • In Record Setup, channel is set to ON. • In Record Framerate, adjust frames per second. • In Record Schedule, set to Normal or Sensor for record time desired. • In Motion Detector Setup, if desired, set to ON and set sensitivity level (block out area you do not want detected). • In Misc. Setup, check that the time is set to the current time. • In Misc. Setup, check whether the channel is hidden from view (will still record, but will not display live image, only shows up on playback). • In Misc. Setup, adjust the Image Parameters for clearest image.
System does not detect HDD	Loose or incorrect connections.	Check that all wire connections are secure and in the correct location.
Cannot access connected modem	1. Loose or incorrect connections. 2. Incorrect address information.	1. Check that the connections are secure and plugged in the correct location in the correct order. 2. Through the Main Menu under Network Setup, - Check that the IP Allocation is set to DHCP.* - Note the IP Address. - Enter the IP Address in the address bar in Internet Explorer and press enter. You will access the HD. *Note: If your modem does not support DHCP, you will need to get the address information from your internet provider.
Error codes when trying to install DxClient software	Incompatibility with web browser.	Check if web browser is compatible with software. This will require online research to determine your web browser's compatibility and operations necessary for installation. You may need to consult a qualified software technician if needed.
Cannot access DVR remotely	1. Port forwarding not completed. 2. Incorrect IP address. 3. Firewall protection hindering access. 4. Proxy not specified.	1. Complete port forwarding procedures to set up the modem for port forwarding. If needed, consult online information or a qualified computer technician to complete this task. You will need to obtain the external IP address of the modem to complete this step. 2. Check for correct external IP address. 3. Check firewall settings. 4. Add to allowed IP addresses.
Buzzer sounding	One or more of the cameras are not connected.	Check that all the camera wiring is completely plugged in at all connection points.
Poor quality images	If viewed on a TV screen, TV settings need adjusting.	Through the Main Menu check that: • In Record Framerate, adjust frames per second. • In Video Quality, increase to highest setting. • In Misc. Setup, adjust the Image Parameters for the clearest image.

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Notes

[illegible]

NOTICE: Camera surveillance may be prohibited by laws that vary from state to state. Check laws in your area before using for surveillance.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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